

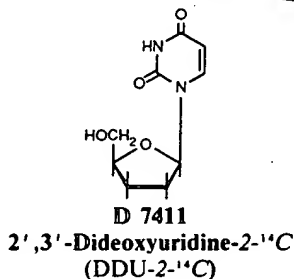
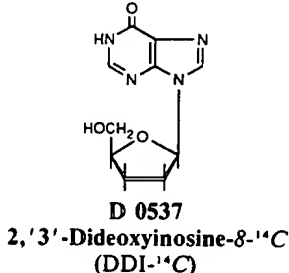
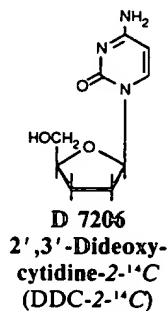
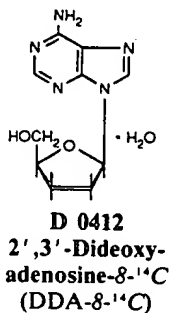
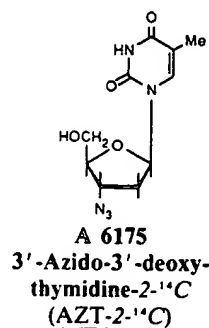


Radiolabeled Anti-AIDS Compounds from Sigma

2',3'-Dideoxynucleosides are potent inhibitors of human acquired immune deficiency syndrome (AIDS) virus. Their pharmacological activity is attributed partly to the formation of the 5'-triphosphates by nucleoside kinases. The 5'-triphosphate analogs inhibit cellular DNA polymerases as well as reverse transcriptase. These anti-AIDS compounds lack a hydroxyl group at the 3'-position, thereby inhibiting elongation of the DNA chain. Recent clinical studies have shown that DDC, DDA and DDI are much more potent in the treatment of AIDS than AZT, and lack AZT's harsh side effects. AZT has also been more effective when used in combination with other dideoxynucleosides.^{1,3}

References:

- (1) Mitsuya, H.; Broder, S. *Nature* 1987, 325, 773. (2) *Idem Proc. Natl. Acad. Sci. U.S.A.* 1986, 83, 1911. (3) Dagani, R. "The Quest for Therapy." In *Chem. Eng. News* 1987, 65(47).



Please contact our Radiochemicals Department for prices and availability.

Starting Materials and Related ³H and ¹⁴C Radiochemicals

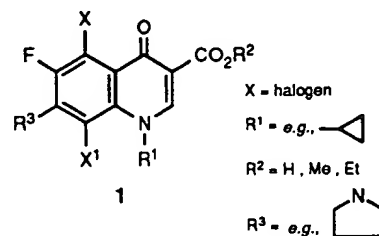
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32,220-2	Thymidine-methyl- ³ H, 40-60Ci/mmol (pfs)	250μCi \$91.00; 1mCi \$160.00 5mCi \$390.00
T 5280	Thymidine-2- ¹⁴ C, 10-25mCi/mmol (pfs)	50μCi \$285.00; 250μCi \$595.00
T 9019	Thymine-2- ¹⁴ C, 45-50mCi/mmol (pfs)	50μCi \$110.00; 250μCi \$395.00
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32,225-3	Uracil-5- ³ H, >20Ci/mmol (pfs)	1mCi \$200.00; 5mCi \$447.00
32,226-1	Uracil-5,6- ³ H ₂ , 30-40Ci/mmol (pfs)	1mCi \$200.00; 5mCi \$447.00
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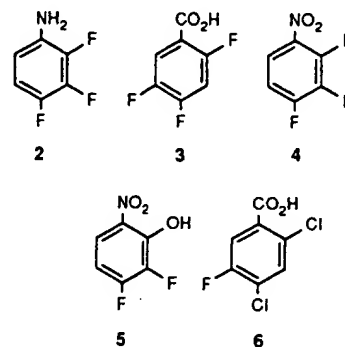
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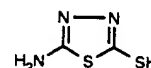
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